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POWER SPECTRAL DENSITY MASKS FOR IMPROVED SPECTRAL COMPATIBILITY

Related Applications

[0001] The present invention claims priority to U.S. Provisional Application Nos. 60/491,268 filed July 31, 2003 and 60/426,796 filed November 18, 2002, the contents of which are incorporated herein by reference in their entirety.

[0002] This application is related to copending U.S. Patent Application ^{NO. 10/714 907,} ~~Λ~~ titled "SYSTEM AND METHOD FOR SELECTABLE MASK FOR LDSL," filed ^{Nov. 18, 2003} ~~January 22, 2003~~ (Attorney Docket No. ~~56162.000456~~) which claims priority to ^{titled} U.S. Provisional Application No. 60/441,351, ^{and U.S. Provisional Application No. 60/426,796, titled} "ENHANCED SMART DSL FOR LDSL," (Attorney Docket No. ~~56162.000483~~), ^{and U.S. Patent Application NO. 10/714 661, now abandoned, titled} "ENHANCED SMART DSL FOR LDSL," ~~Λ~~ (Attorney Docket No. ~~56162.000484~~) which claim priority to U.S. Provisional Application No. 60/488,804 filed July 22, 2003, all filed concurrently herewith. ^{Enhanced Smart DSL for LDSL, filed Nov. 18, 2003}

BACKGROUND OF THE INVENTION

[0003] Field of the Invention

[0004] This invention relates to digital subscriber lines (DSL) and to smart systems for implementing Long reach Digital Subscriber Lines (LDSL).

[0005] Description of Related Art

[0006] High level procedures for meeting stated objectives for Long reach Digital Subscriber Line (LDSL) transmissions are disclosed. Some objectives for LDSL have been defined in publications available from standards organizations such as the International Telecommunications Union (ITU). For example, ITU publications OC-041R1, OC-045, OC-073R1, OJ-030, OJ-036, OJ-060, OJ-061, OJ-062, OJ-200R1, OJ-200R2, OJ-201, OJ-60R1, OJ-60R2 and OJ-210 set forth some LDSL objectives. Other objectives, standards and criteria for LDSL are also possible and may be accommodated by the disclosed inventions.

[0007] One LDSL target objective is to achieve a minimum payload transmission of 192 kb/s downstream and 96 kb/s upstream on loops having an equivalent working